



**Scientific Support to
the Accounting Process**

Armed Forces DNA Identification Laboratory (AFDIL)



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Missions by Funding

Armed Forces DNA Repository (**DHP**)

Armed Forces Medical Examiner (**DHP**)

US Army CILHI Casework (**DCSPER**)

*National Transportation Safety Board (**MOA**)

*Federal Bureau of Investigation (**MOA**)

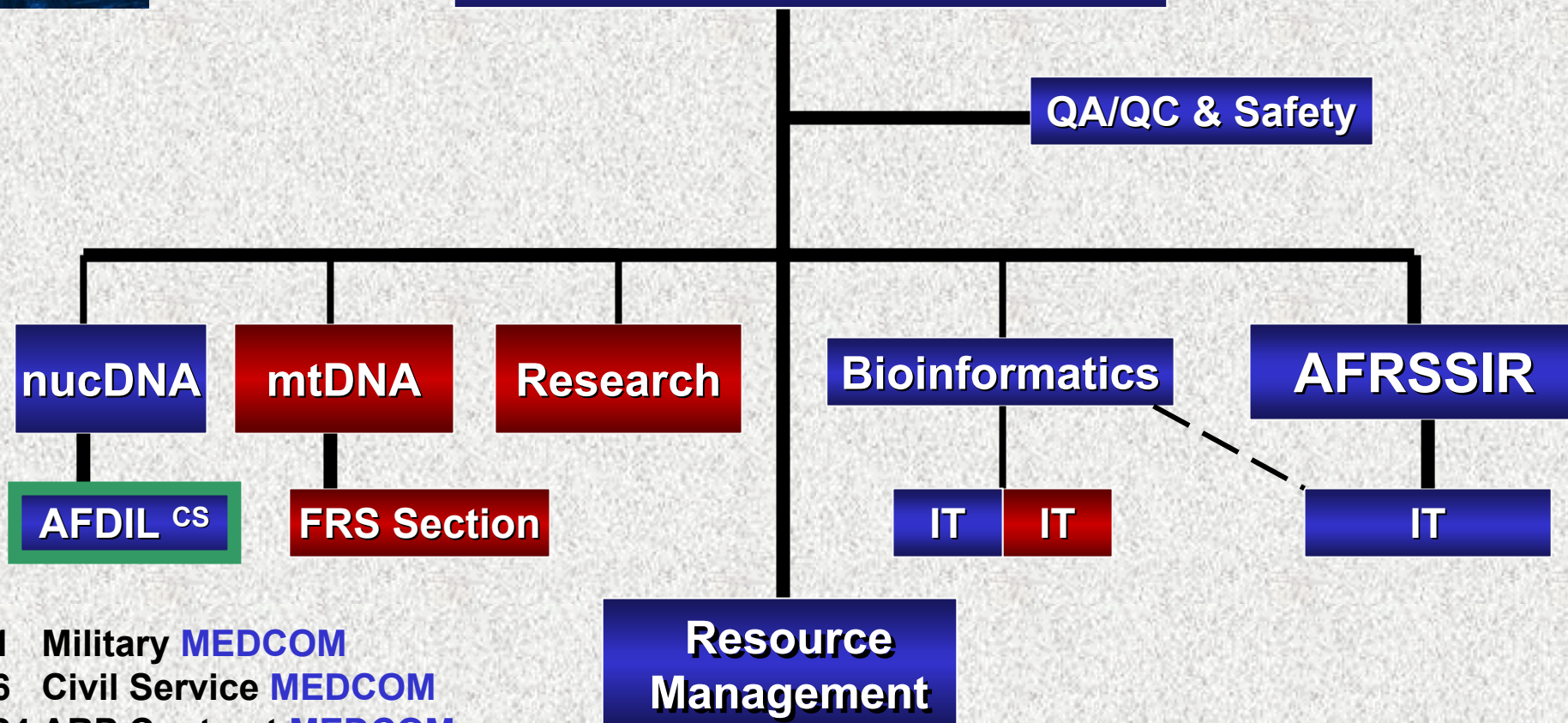
*United States Coast Guard (**MOA**)





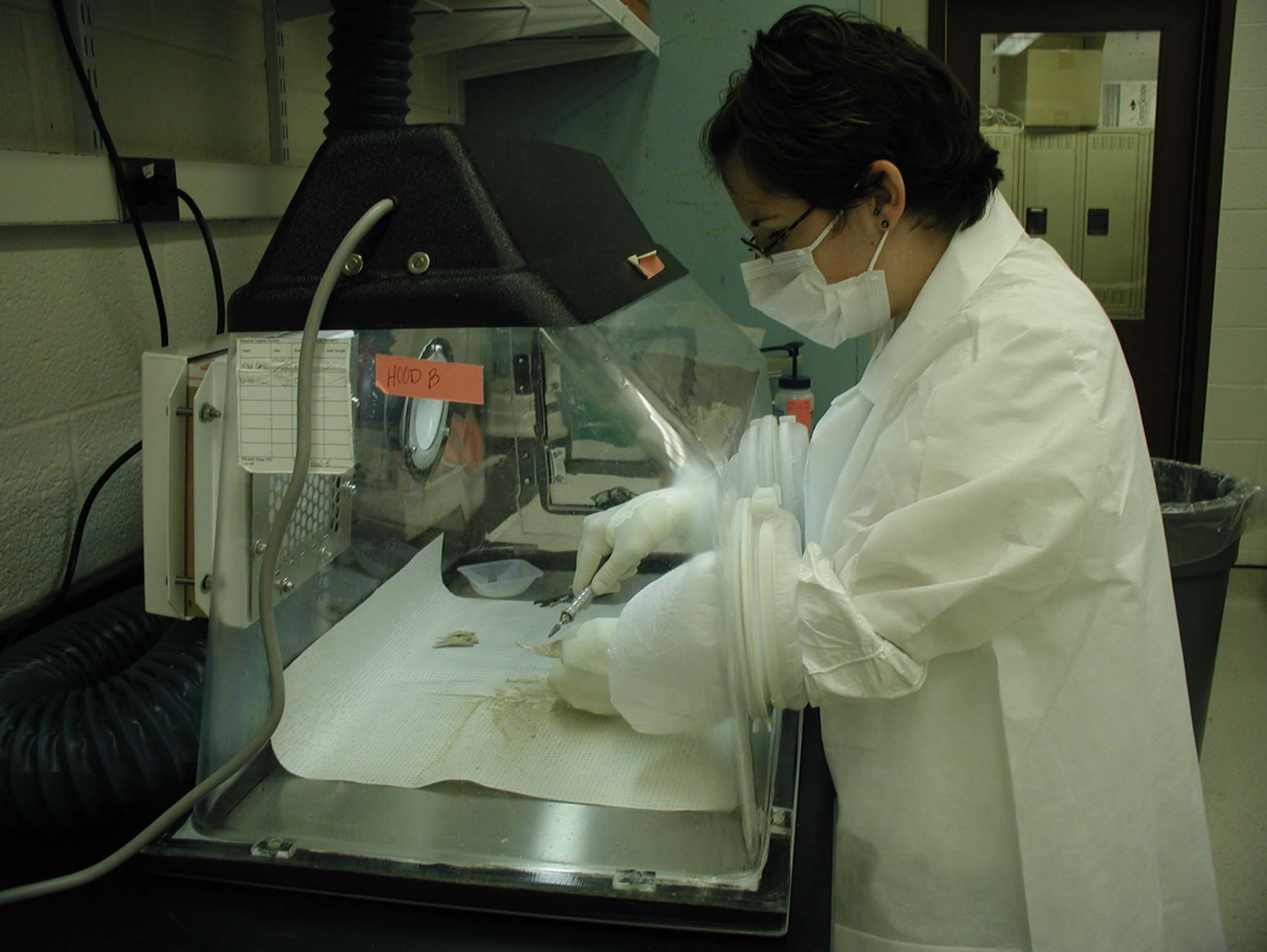
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DoD DNA Registry



- 1 Military **MEDCOM**
- 6 Civil Service **MEDCOM**
- 24 ARP Contract **MEDCOM**
- 51 ARP Contract **PERSCOM**
- 10 IT Contractors **MEDCOM/PERSCOM**
- 3 ARP Contract (Special Projects) **Registry**

95 Total Staff (59 Scientists)







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Armed Forces Repository

- All branches of the Armed Forces & Coast Guard
- Includes Reserve, Guard, & Civilians
- As of 1 Oct 2002: **3,921,195**
- Total for FY02: **321,600**
- Collections from 2,756 sites
- Used 720 times for remains identification since 1995

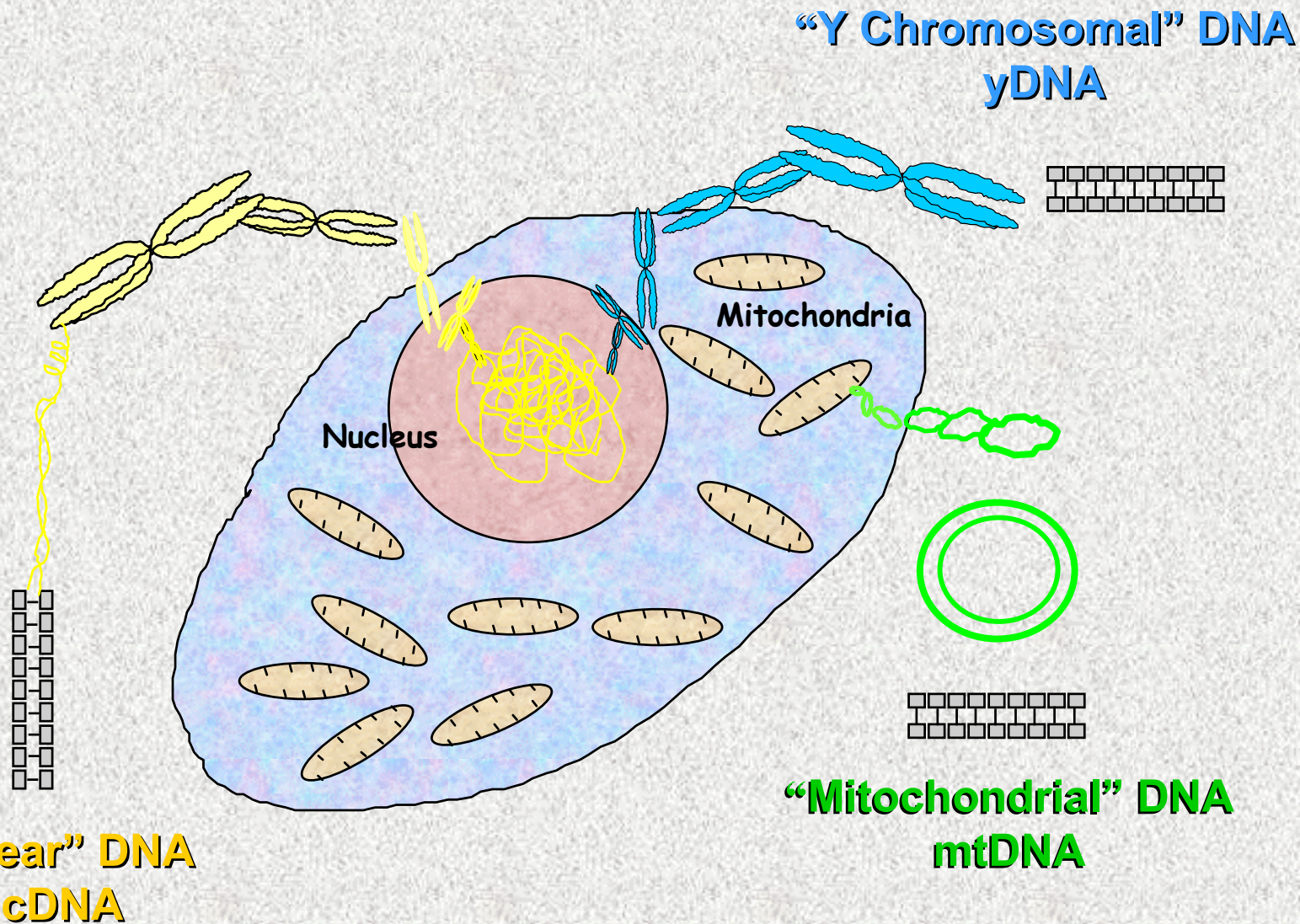




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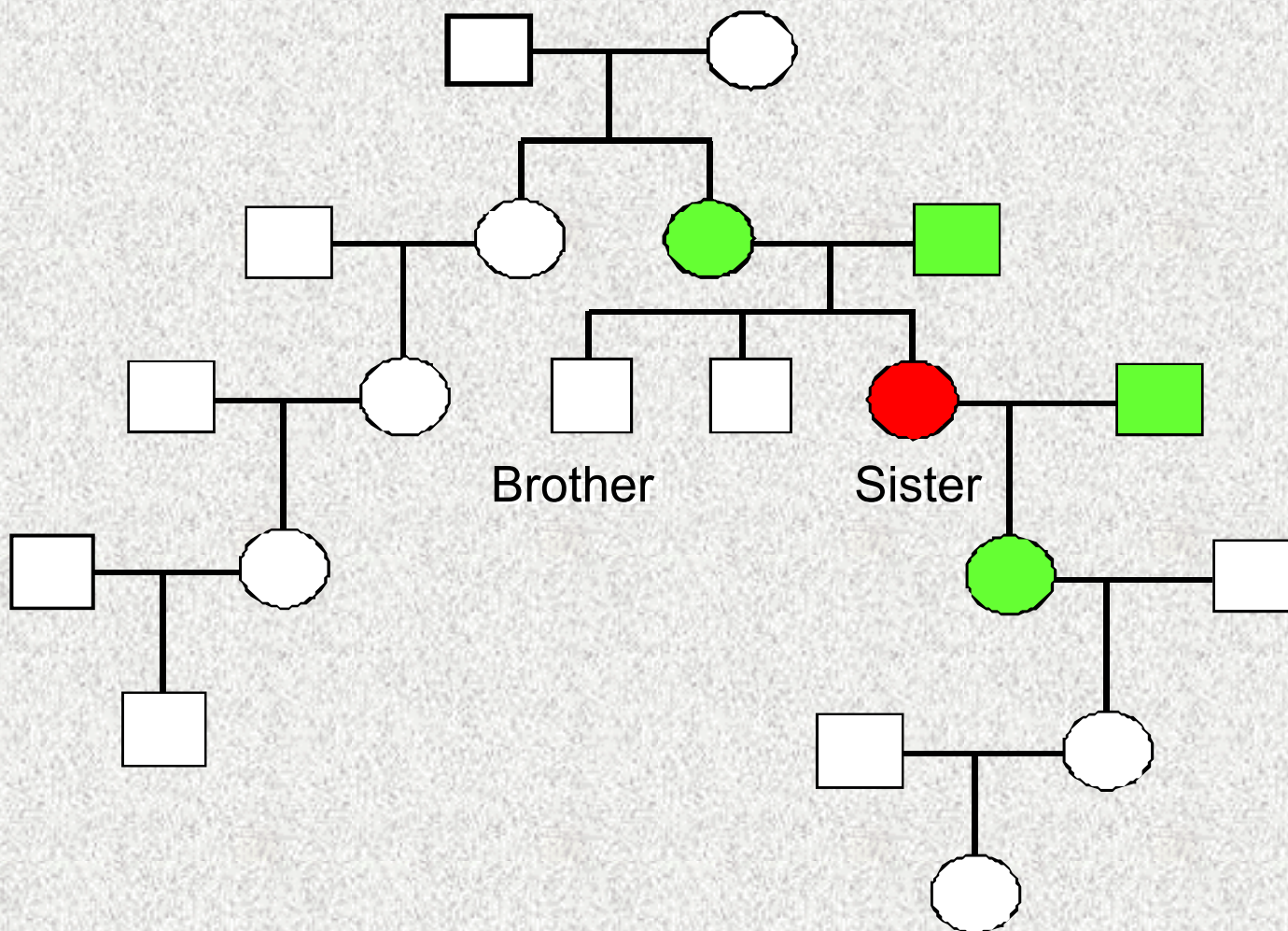


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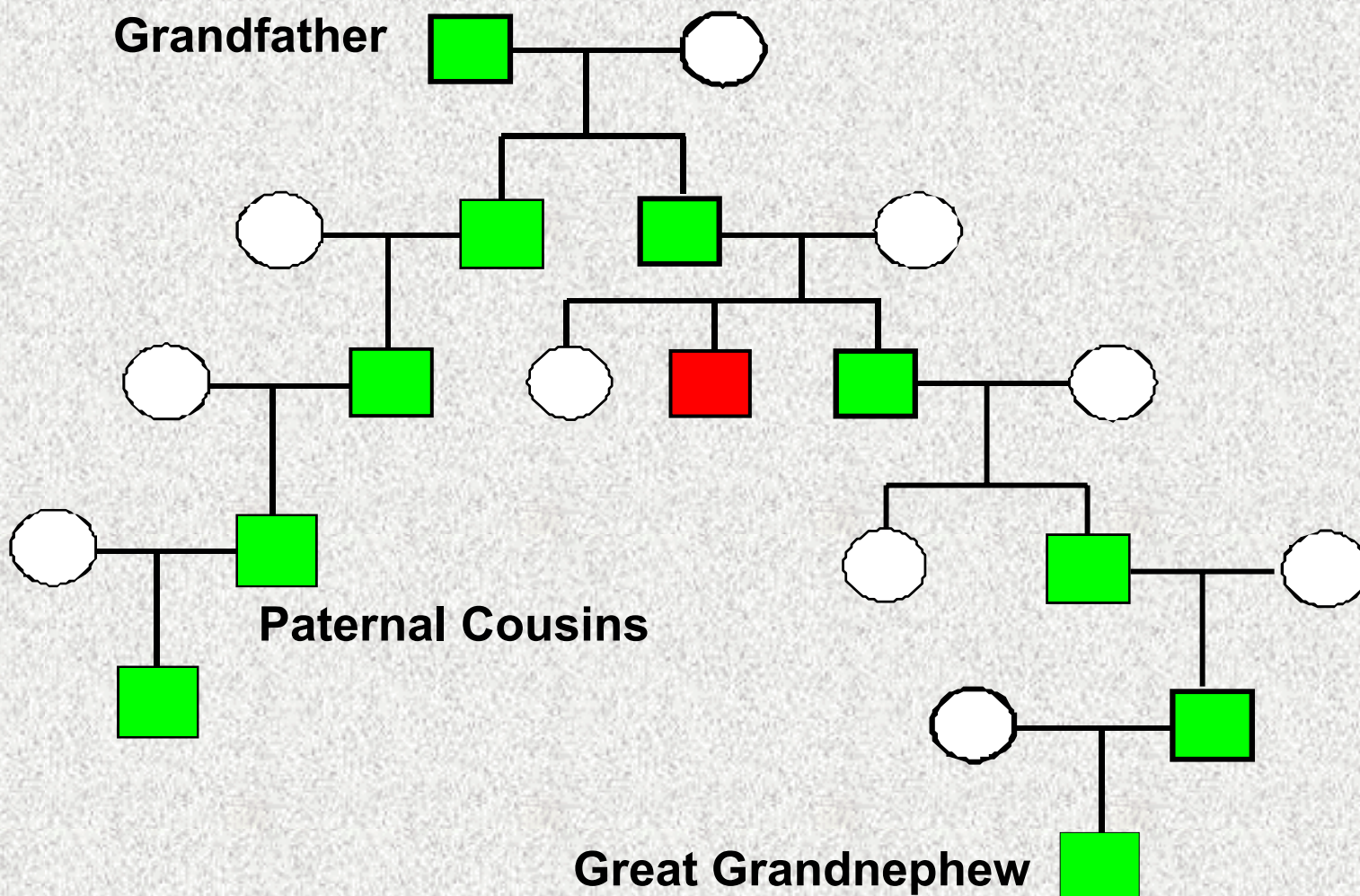
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References for nucDNA



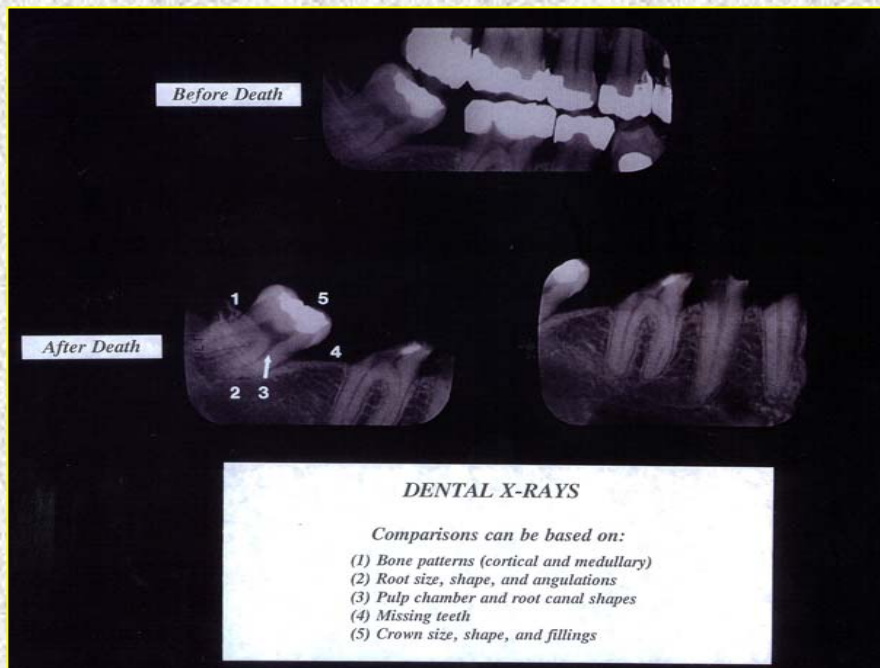
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References for yDNA





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Over half of CILHI Cases require mtDNA support



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Role of mtDNA in Identification Process

1. Non-DNA Evidence



2. Presumptive ID



3. mtDNA Comparison

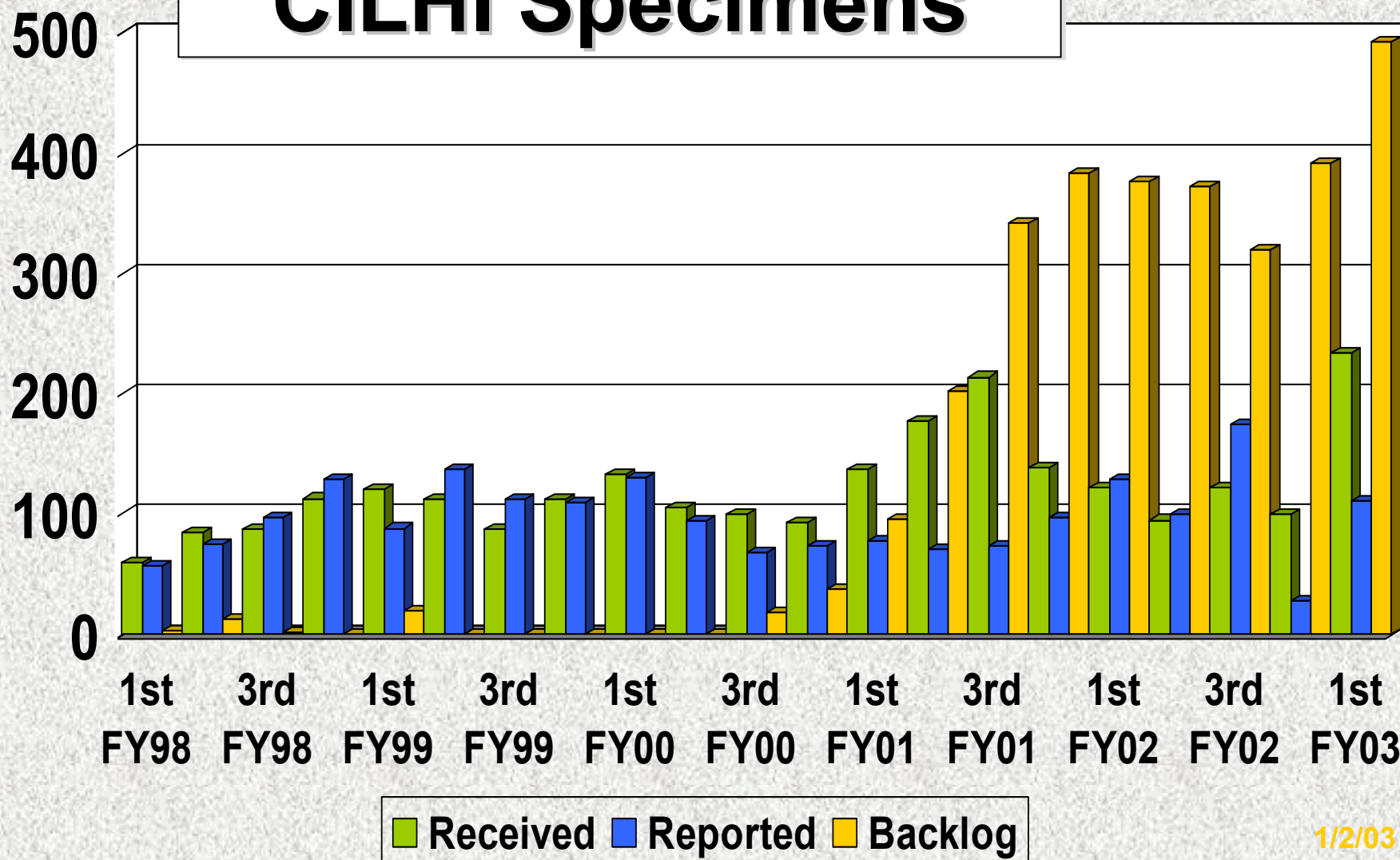


4. Confirm or Exclude



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CILHI Specimens

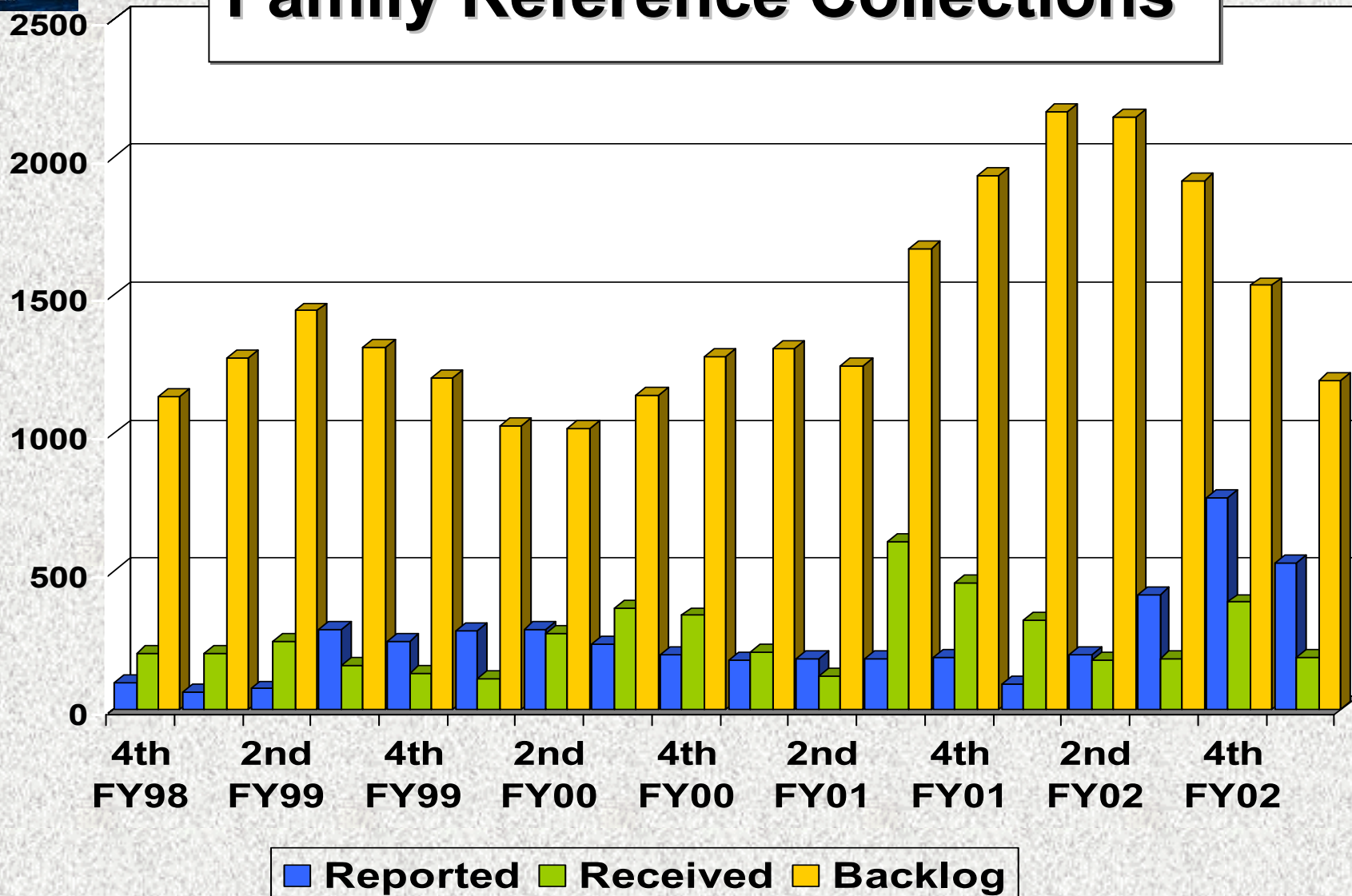


1/2/03



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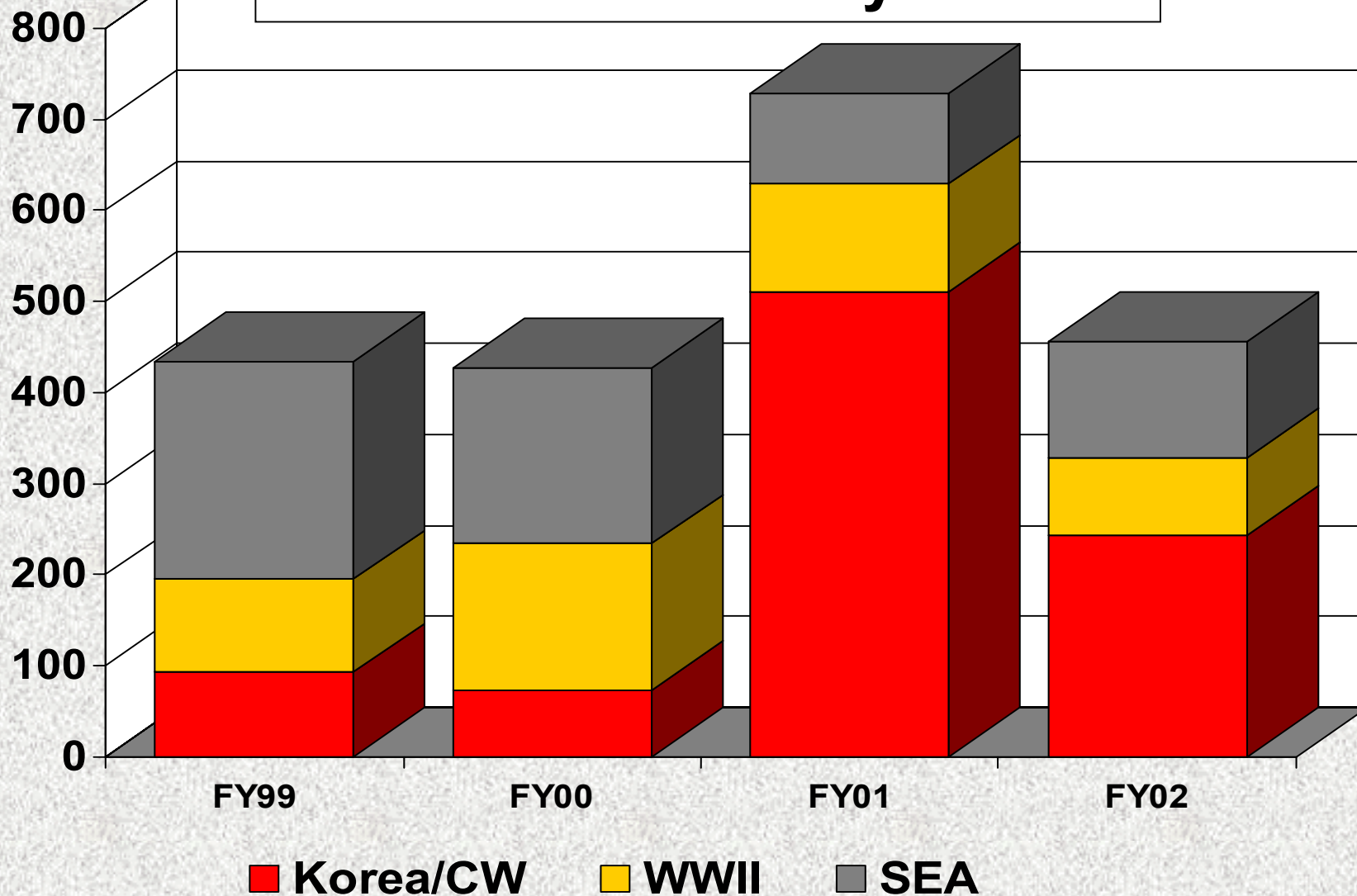
Family Reference Collections





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DNA Submissions by Conflict





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Future Role of mtDNA in Identification Process

1. mtDNA Comparison

- Searchable mtDNA Family Reference Database (Korea)



2. Possible IDs



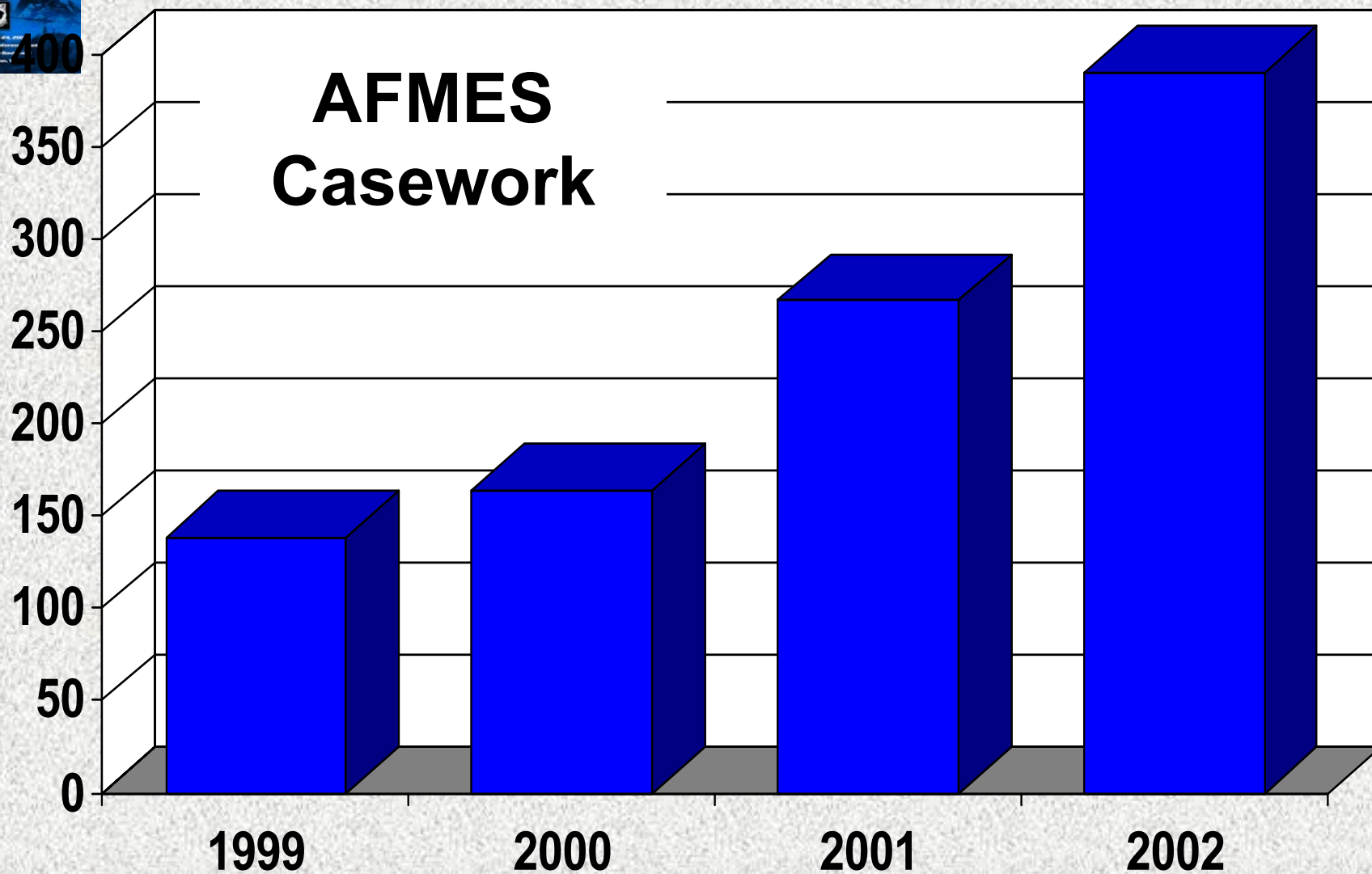
3. Non-DNA Evidence



4. Confirm or Exclude

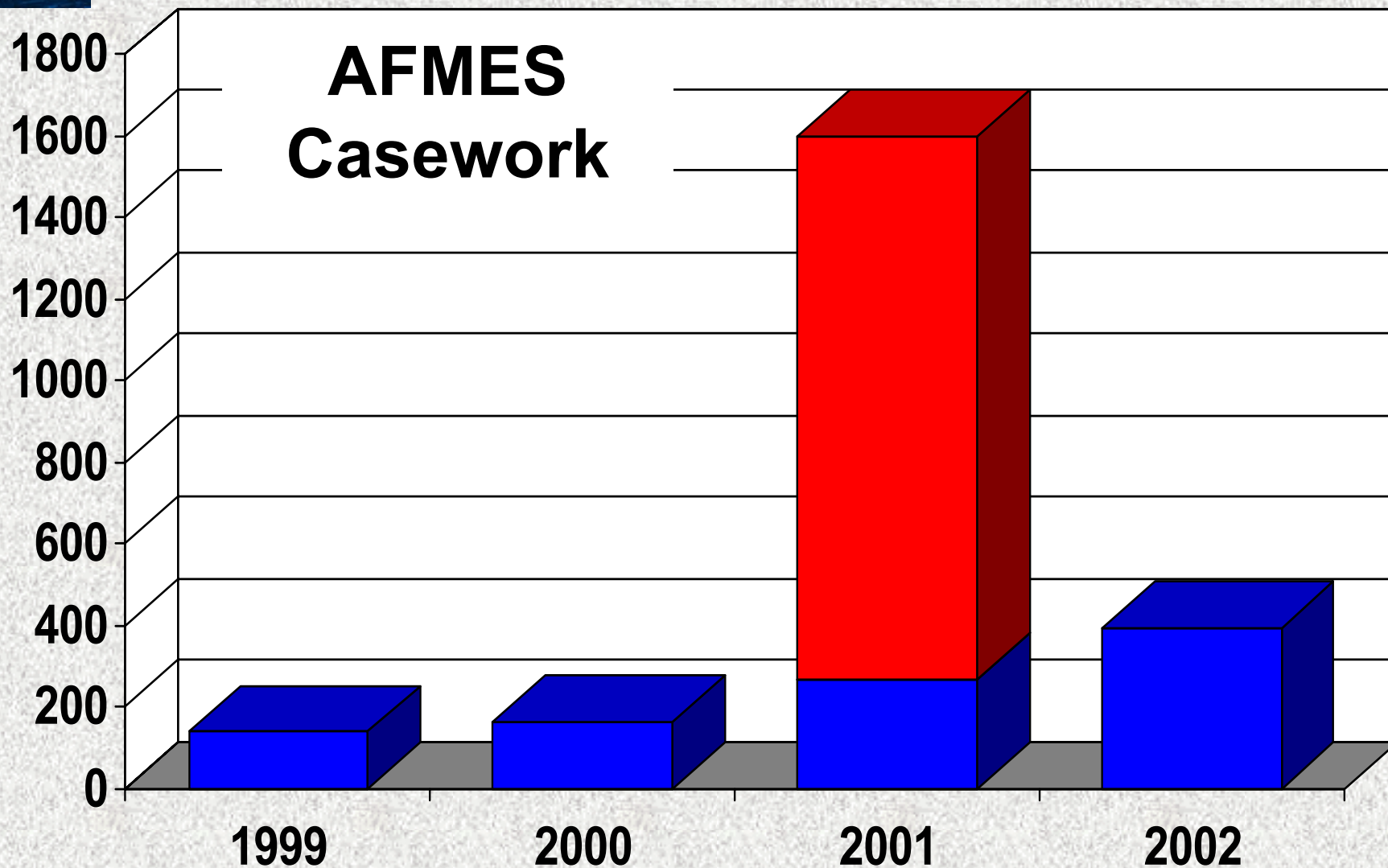


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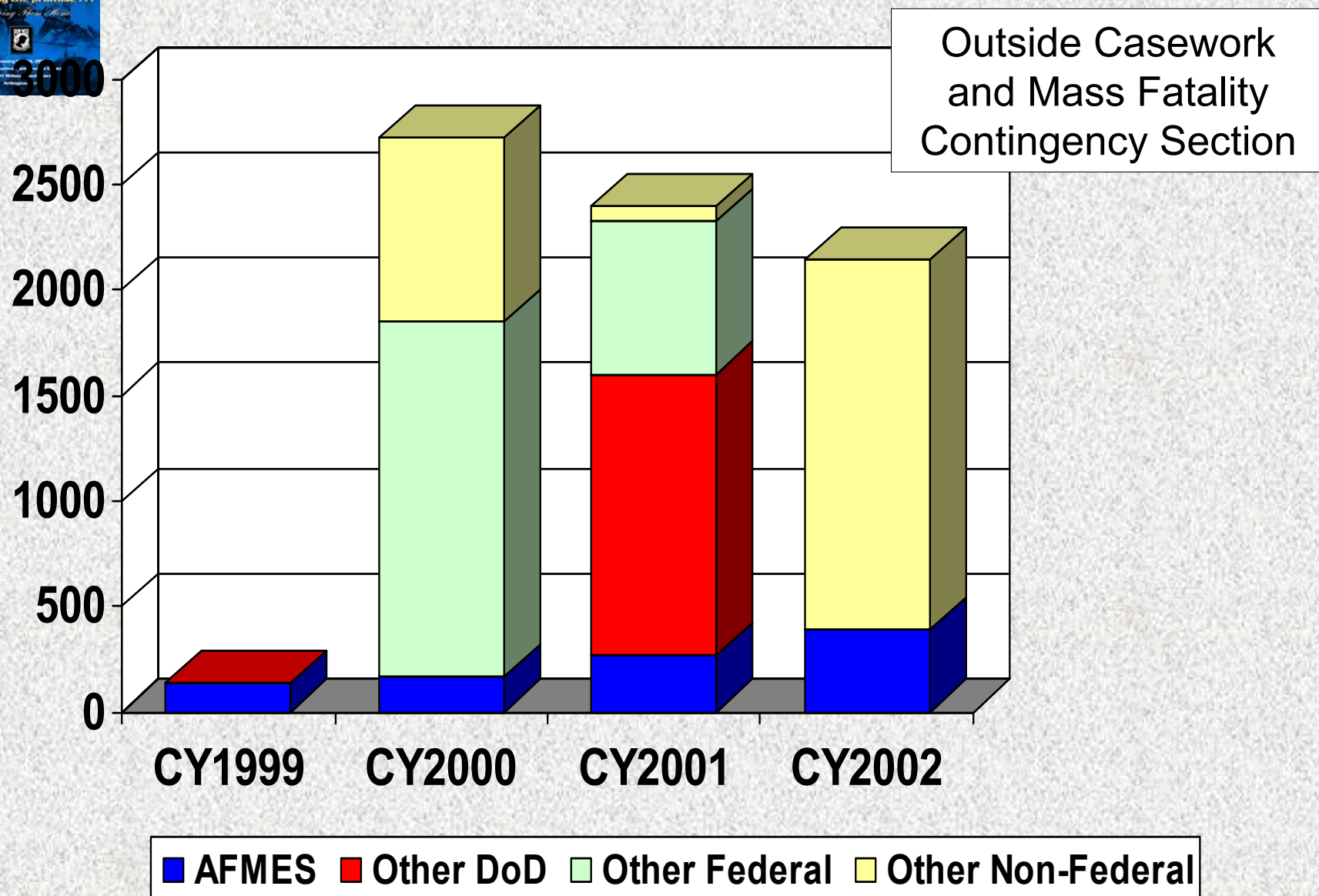


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Alaska Airlines
261
 31 January 2000
 California



Anti-Terrorist Databasing



Charlotte Fire Department / Pool via AP



ICMP
Bosnia



Tragedy over the Atlantic



EgyptAir Flight 990

EgyptAir 990
 31 October 1999
 South of Nantucket



Pentagon/Somerset
 11 September 2001

Lima, Peru Dec 2001
288 victims

TSWG.GOV



Scientific Working Group

SWG
DAM

mtDNA and Training Sub-Committees



Privacy Act Statement
January 1997

1. Authority:
10 U.S.C. 151 (Secretary of Defense), 10 U.S.C. 3013 (Secretary of the Army), 10 U.S.C. 3013 (Secretary of the Navy), 10 U.S.C. 3013 (Secretary of the Air Force), and 5 U.S.C. 305 (Departmental Regulations). A response is mandatory for DoD military personnel, and possible consequences for failing to respond include adverse administrative actions and possible disciplinary actions under the Uniform Code of Military Justice. A response is voluntary for DoD civilian personnel selected for the program, but possible consequences for failing to respond include eligibility for deployment with U.S. Armed Forces, which, if a condition of employment, may result in adverse administrative action up to and including separation from the federal service. A response is voluntary for non-DoD personnel selected for the program, but possible consequences for failing to respond include exclusion from areas under the control of U.S. Armed Forces and instances of remains identification efforts.

2. Principal Purpose:
Information in the system of records will be used for the identification of human remains. The principal purpose of the information is to identify reference specimens known that will ultimately be stored and not analyzed until needed for remains identification program purposes.

3. Routine Uses:
Routine uses include notification to federal, state, local, and foreign authorities of the identification of human remains. Blanket Routine Uses do not apply to this system.

4. Destruction Notice:
Specimen samples not used for identification of remains will be maintained for 50 years, and then destroyed. Samples will be destroyed prior to the scheduled destruction date upon donor request submitted following the conclusion of the donor's complete military service obligation or other applicable responsibility to DoD. Complete military service is not limited to active duty service; it includes all service as a member of the Selected Reserves, Individual Ready Reserve, Standby Reserve or Retired Reserve. Requests for early destruction may be sent to Repository Administrator, Armed Forces Institute of Pathology, Armed Forces Repository of Specimen Samples for the Identification of Remains, 1600 Industrial Drive, Suite 100, Gaithersburg, MD 20877.

INSTRUCTIONS

1. Use a pen or pencil only.
2. To the best of your ability, fill in each box with letters and numbers like shown below the instructions.
3. Do not discard if letters or numbers touch box edges or dots.
4. Most importantly, the card must be readable.

☐ A ☐ B ☐ C ☐ D ☐ E ☐ F ☐ G ☐ H ☐ I ☐ J ☐ K ☐ L
☐ M ☐ N ☐ O ☐ P ☐ Q ☐ R ☐ S ☐ T ☐ U ☐ V ☐ W ☐ X ☐ Y ☐ Z
☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9

Star Code

I, the undersigned, hereby acknowledge that I have read the attached Privacy Act Statement of January 1997, and that the blood specimen on this card is mine.

Signature

FITZCO, Inc.
1-800-367-8700 • 612-479-3489
FAX 612-479-2880

4539790A
4539790B
4539790C

4539789

Last Name
First Name
MI

Today's Date
Month Day Year
Date of Birth

SS Number (Mark an X below each digit)

Branch of Service (Mark an X)

☐ USA ☐ USMC ☐ USN
☐ USAF ☐ USCG ☐ Other
 Other Organization

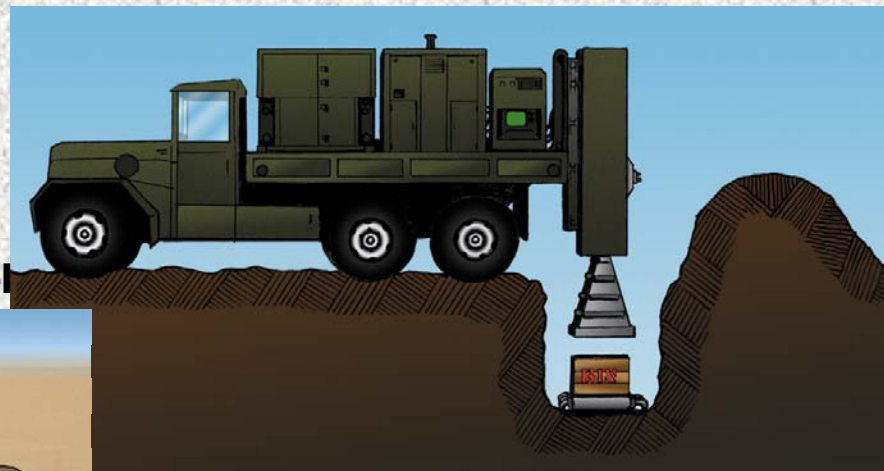
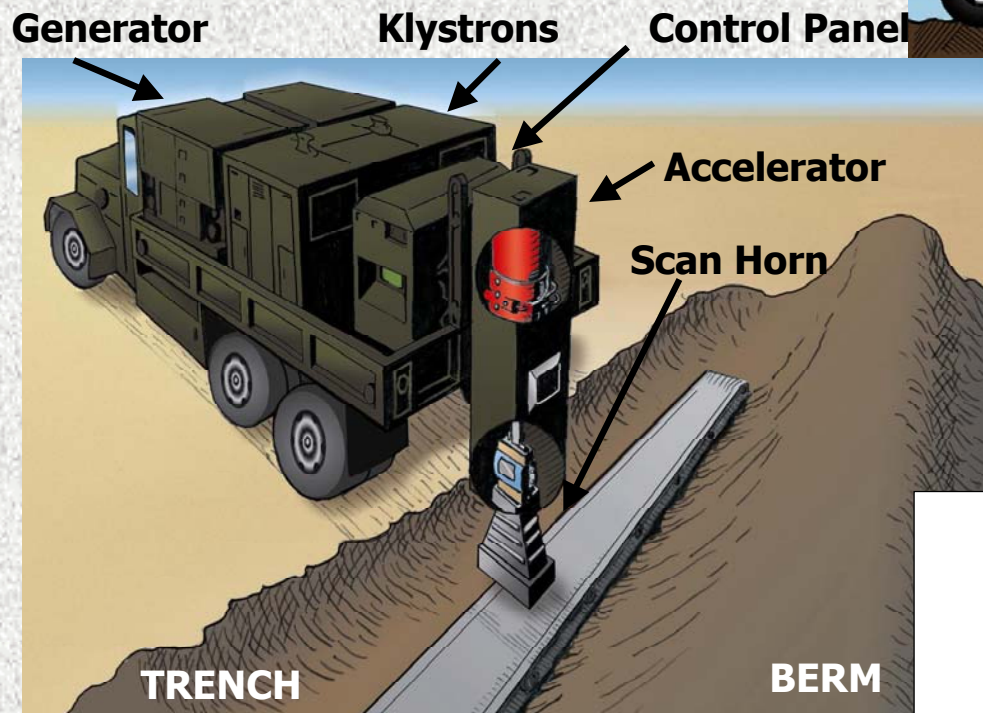
DNA Sample Repository
Services and Consultation

WTC mtDNA Working Group
WTC Kinship Analysis Working Group
Celera mtDNA WTC Working Group

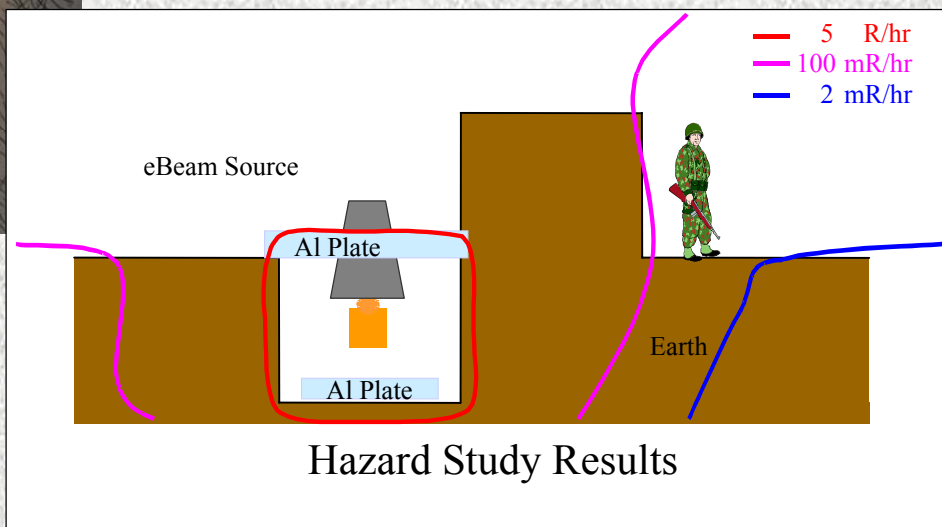
Mass Fatality Incident
DNA Working Group



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Images Courtesy of
Titan Corporation





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Supplies



- Fitzpak Transport Tube (no Foam insulation)
 - Fitzco, Inc. 1-800-367-8760 www.fitzcoinc.com



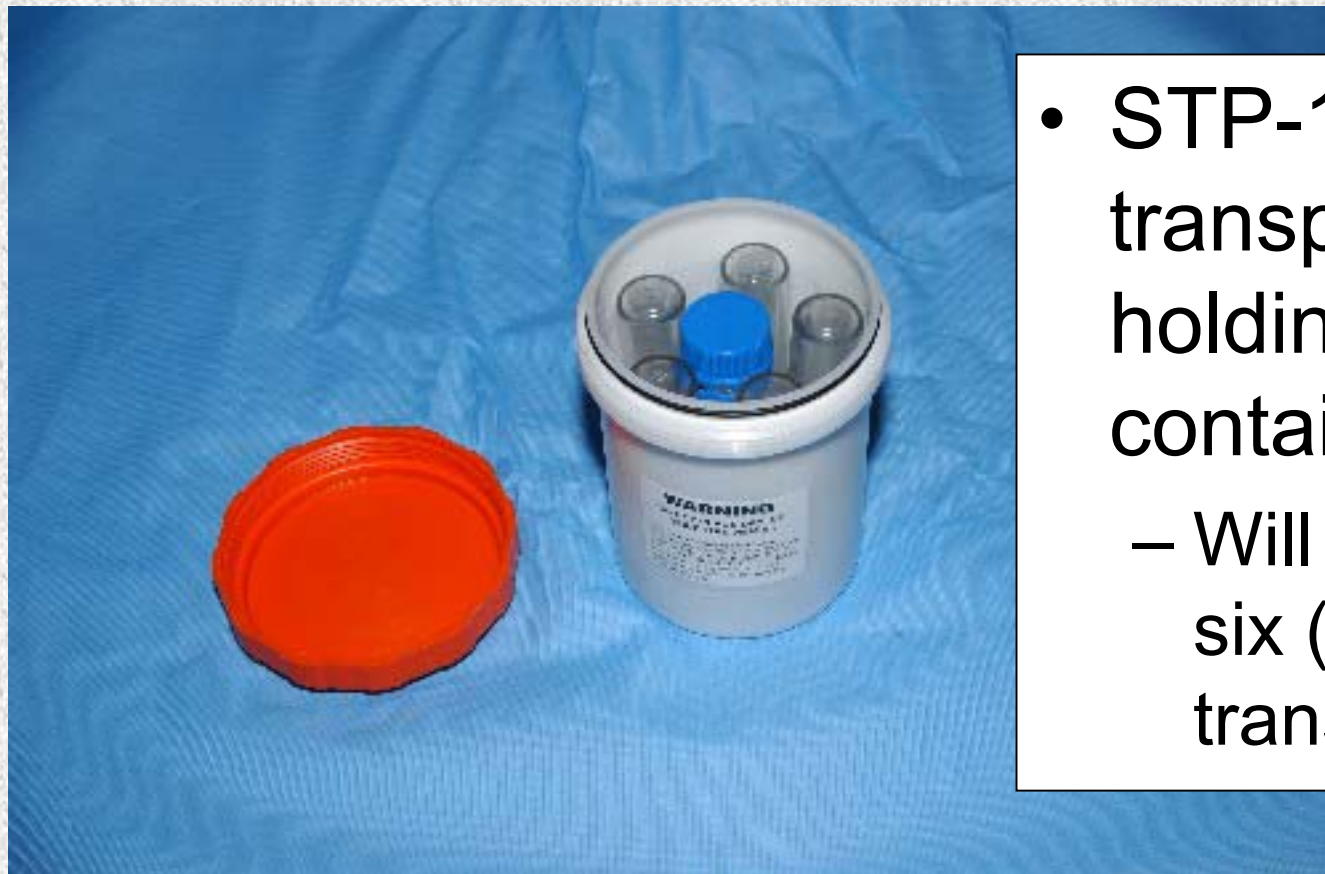
- STP-100 Infectious Substance Shipper
 - Saf T Pak, Inc. 1-800-814-7484
www.saftpak.com



- STP-350 Saf-T-Case
 - Saf T Pak, Inc. 1-800-814-7484
www.saftpak.com

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Procedure



- STP-100
transport tube
holding
container
 - Will hold up to
six (6)
transport tubes



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Procedure



- STP-350 Biological Shipment Container
 - Will hold up to eight STP-100 containers. (Up to 48 contaminated human tissue/bone samples)



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